

# RUNLONG (HARRY) YE

40 St. George St., DGP Lab, Toronto, ON M5S 2E4

[harryye.com](http://harryye.com) ◊ [harryye@cs.toronto.edu](mailto:harryye@cs.toronto.edu) ◊ [linkedin.com/in/runlong-ye](https://linkedin.com/in/runlong-ye)

## EDUCATIONS

---

### Ph.D. in Computer Science

University of Toronto

Sep. 2024 - Present

Advisor: Prof. Michael Liut, Prof. Carolina Nobre

Research Area: Human-Computer Interaction, Human-AI Interaction, Intelligent System, Educational Technology

### B.Sc. in Computer Science

University of Toronto

Sep. 2019 - Jun. 2024

## PUBLICATIONS

---

6. **Ye, R.**, Sibia, N., Zavaleta Bernuy, A., Zhu, T., Nobre, C., & Liut, M. (2024, October). [ARC: Automated Review Companion Leveraging User-Centered Design for Systematic Literature Reviews](#). *Preprint*. (In Submission)<sup>3</sup>
5. Zavaleta Bernuy, A., Sibia, N., Chen, P., Xu, J. J.-N., Tran, E., **Ye, R.**, Pammer-Schindler, V., Petersen, A., Williams, J. J., & Liut, M. (2024, May). [Does the Medium Matter? A Comparative Analysis of Voice and Text Reflective Learning](#). In *Proceedings of the 2024 ACM Designing Interactive Systems Conference (DIS '24)*.
4. Kazemitabaar, M., **Ye, R.**, Wang, X., Henley, A., Denny, P., Craig, M., & Grossman, T. (2024, May). [CodeAid: Evaluating a Classroom Deployment of an LLM-based Programming Assistant that Balances Student and Educator Needs](#). In *Proceedings of the 2024 CHI Conference on Human Factors in Computing Systems (CHI '24)*.<sup>2</sup>
3. Zavaleta Bernuy, A., **Ye, R.**, Sibia, N., Nalluri, R., Williams, J. J., Petersen, A., Smith, E., Simion, B., & Liut, M. (2024, March). [Student Interaction with Instructor Emails in Introductory and Upper-Year Computing Courses](#). In *Proceedings of the 55th ACM Technical Symposium on Computer Science Education (SIGCSE '24)*.<sup>1</sup>
2. Zavaleta Bernuy, A., **Ye, R.**, Tran, E., Mandal, A., Shaikh, H., Simion, B., Petersen, A., Liut, M., & Williams, J. J. (2023, November). [Do Students Read Instructor Emails? A Case Study of Intervention Email Open Rates](#). In *Proceedings of the 23rd Koli Calling International Conference on Computing Education Research (Koli Calling '23)*.<sup>1</sup>
1. **Ye, R.**, Chen, P., Mao, Y., Wang-Lin, A., Shaikh, H., Zavaleta Bernuy, A., & Williams, J. J. (2022, September). [Behavioral Consequences of Reminder Emails on Students' Academic Performance: a Real-world Deployment](#). In *Proceedings of the 23rd Annual Conference on Information Technology Education (SIGITE '22)*. **Best Paper Award** 🏆<sup>1</sup>

## RESEARCH PROJECTS

---

3. [Design, Implementation, and Evaluation of a Novice Systematic Review Assistant](#) Sep. 2023 - Present  
*Dynamics Graphics Project (DGP) Lab, University of Toronto* Toronto, ON  
Developed *ARC*, an open-source platform for automated systematic literature reviews, refined via iterative feedback from a global user study. *ARC* features Keyword Variation Management to handle diverse query formulations, Iterative Search Comparison with visualized modifications over repeated searches, and an LLM-powered automated Irrelevance Filtering system to streamline article triage while keeping human-in-the-loop. This user-centered approach reduced researcher workload, fostered reproducibility, and advanced transparent research practices.
2. [Design and Evaluation of New Programming Tools using AI Coding Assistants](#) Jan. 2023 - Dec. 2023  
*Dynamics Graphics Project (DGP) Lab, University of Toronto* Toronto, ON

Part of *CodeAid* project, an LLM-based programming assistant for a 700-student course, collecting and analyzing over 8,000 student interactions, 1,000+ survey responses, and additional interview data. I led the development of a thematic analysis codebook with specialized classification tags and performed both qualitative and quantitative analyses. These findings informed critical design recommendations for future AI-powered educational tools.

1. **Impact of Reminder Emails Using Randomized A/B Comparisons** Aug. 2020 - Dec. 2023  
*Intelligent Adaptive Interventions (IAI) Lab, University of Toronto* Toronto, ON

Co-developed a series of randomized A/B experiments for encouraging better student learning behaviors. I co-designed and deployed personalized A/B interventions for thousands of students across multiple courses and university campuses. I engage in both quantitative analyses (deriving significant statistical insights on how reminder messages impact behavior) and qualitative investigations (developing interview guides and conducting interviews with ~15 students each semester). My findings directly informed iterative improvements to projects's intervention strategies and messaging.

## WORK EXPERIENCES

---

**Full-Stack Software Developer Co-op** May 2022 - May 2023  
*CX, Oracle* Toronto, ON

- Maintained 20+ projects, updating dependencies and documentation. Modernized a legacy web app by creating new pages with React and OJET, enhancing user experience.
- Migrated core application functions to Kubernetes, boosting scalability, reliability, and reducing costs.
- Developed 20+ end-to-end automation tests (Java, Selenium WebDriver, C#), including asynchronous API tests, significantly increasing test coverage and efficiency.

## TEACHING EXPERIENCES

---

**Teaching Assistant** Sep. 2021 - Present  
*University of Toronto* Toronto, ON

**Introduction to Computer Programming** - CSC108 (Fall '21, Fall '23: Head TA)

**Software Design** - CSC207 (Fall '24)

**Introduction to Databases** - CSC343 (Winter '23, Winter '24: Head TA)

**Computing Education** - CSC389 (Winter '25)

- CSC108: Host lecture breakout rooms to teach course exercises in an active learning environment.
- CSC207: Host weekly tutorial sessions to engage students with course content and supervise students' course projects.
- CSC343: Support instructor to update and review course structure, material, and exams. Preparing and delivering weekly tutorials, moderating online discussions, and grading.
- CSC389: Support lecture delivery, develop and deliver weekly tutorial sessions on research methodology.

Head TA includes additional duties such as preparing course materials, coordinating groups of TAs, and additional admin tasks.

## TALKS

---

1. **The 23rd Annual Conference on Information Technology Education (SIGITE '22)** Sep. 2022  
*Paper Presentation* Chicago, IL (Virtual)  
Title: [Behavioral Consequences of Reminder Emails on Students' Academic Performance: a Real-world Deployment](#)

## RESEARCH AWARD

---

DiDi Graduate Student Award in Computer Science (\$10,000) 2024-2025

University of Toronto Undergraduate Student Research Award (\$7,500) 2023

CRA Outstanding Undergraduate Researcher Awards Honorable Mention 2023

## SERVICES

---

### **Conference Volunteers**

SIGCSE (2023)

### **Community Volunteers**

DCS Academy (2025)

## TECHNICAL STRENGTHS

---

### **Computer Languages**

Python, Java, R, JavaScript, SQL, HTML, Bash, C#

### **Scientific Libraries**

Pandas, NumPy, SciPy, Matplotlib

### **Technologies/Frameworks/Databases**

Django, React, React Native, PostgreSQL, Selenium WebDriver

### **Cloud/Developer Tool**

Azure, AWS, Docker, Git, Postman